



# CPSA-FL<sup>Q&As</sup>

ISAOB Certified Professional for Software Architecture - Foundation Level (CPSA-FL)

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### QUESTION 1

Select the two most appropriate methods for evaluating the reliability of a software system. (Choose two.)

- A. Determining the number of 'lines of code'
- B. Measurement of 'Mean-Time-between-Failure'
- C. Execution of performance tests
- D. Determination of the cyclomatic complexity
- E. Conducting an ATAM evaluation

Correct Answer: BC

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### QUESTION 2

Which of the following techniques are best suited to illustrate the interaction of runtime building blocks? Select the four most suitable techniques.

- A. Activity diagrams
- B. Sequence diagrams
- C. State diagram
- D. Flowcharts
- E. Class diagrams
- F. Tabular description of interfaces
- G. Depiction of screen flows (sequence of user interactions)
- H. Numbered lists of sequential steps

Correct Answer: ABCE

Reference: <https://www.smartdraw.com/uml-diagram/>

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### QUESTION 3

#### HOTSPOT

Decide if the following statements are true or false. The performance of a system (response time or throughput) often competes with its... (Assign all answers.)

Hot Area:



**true**

**false**

☐☐

A) flexibility

☐☐

B) memory usage

☐☐

C) on-time completion of the project

☐☐

D) adaptability

☐☐

E) usability

☐☐

F) security

☐☐

G) testability

Correct Answer:

**true****false**☐☒

A) flexibility

☐☒

B) memory usage

☐☒

C) on-time completion of the project

☐☒

D) adaptability

☒☐

E) usability

☒☐

F) security

☒☐

G) testability

**QUESTION 4**

Which of the following statements about (crosscutting) concepts are most appropriate? (Select four.)

- A. The definition of appropriate concepts ensures the conceptual integrity of the architecture.
- B. Concepts are a means to increase consistency.
- C. For each quality goal there should be an explicitly documented concept.
- D. Uniform exception handling is most easily achieved when architects agree with developers upon a suitable concept prior to implementation.
- E. A concept might be implemented by a single building block.
- F. Uniform usage of concepts reduces coupling between building blocks.
- G. A concept can define constraints for the implementation of many building blocks.

Correct Answer: ABDG

**QUESTION 5**

Which elements should be defined in the white-box view of a software building block 'foo'? Select the three most important elements. (Choose three.).

- A. The dependencies of the internal building blocks of 'foo'
- B. The legal contracts with the suppliers of the internal building blocks of 'foo'
- C. The algorithms of the internal building blocks of 'foo'
- D. The internal building blocks of 'foo'
- E. The rationale for the decomposition of the building block
- F. The sizes (in lines of code) of the internal building blocks of 'foo'

Correct Answer: BCE

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